Page 1 of 37

EXHIBIT 7 (PART 2)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of RICHARD F. STOKES et al

FOR:

COMPRESSOR BLEED AIR CONTROL APPARATUS AND METHODS

Attorney Docket No. TE-4086

PRELIMINARY AMENDMENT

Hon. Commissioner of Patents & Trademarks

Phoenix, Arizona 85010

Washington, D. C. 20231

February 17, 1981

Dear Sir:

All Base Ending Spiles demonstrate for the

Address of the contraction

Section 134

In the above-identified patent application submitted herewith for filing, please enter the following preliminary amendment.

IN THE SPECIFICATION:

Page 2,-line 7, delete "leve" and insert --level--.

IN THE CLAIMS:

Claim 34, line 1, delete "compising" and insert --comprising--.

Claim 37, line 4, delete the word "the" at the end of the

line; line 5, delete "." at the end of the line and insert --is

selected.--.

Claim 41, line 17, delete "signas" and insert -- signals--.

REMARKS

This preminimary amendment is being submitted to correct minor typographical errors in the specification and claims, and to insert two inadvertently omitted words at the end of Claim 37. The necessity for each of these minor changes is believed to be readily apparent, and no new matter is being inserted into the application.

Light from Law Transfer garding

888 1498 C 10 1 18

TE-4086

Moreover, this preliminary amendment is not being submitted in response to any Office Action.

Respectfully submitted,

J. Richard Konneker Attorney for Applicants Registration No. 28,867

JRK/dak

ය සම්පත්ත වෙම්ම කරන කරන කරන කරන කරන කරන කරන කරන වන වන අතරම වඩා කරන කරන මෙන . Literatura (Science Science Sci

and the second of the second o

was the figure of the first of the contract of the first of the first of the first of the first of the en beginne kapan en grupe in grannen geben hinge han et alle han de beten bliebe

er grant til til fill til en er en skiller til til gærelære flære æren klimare er er fill efter et f

and the second of the company of the contract of the second of the secon agrandy taki mya taka andar ana ara karangara sa la nagarat, iliku karangan karangan karangan karangan kara

was programmed and the company of the section of the pro-

er street en die die verschiede verschiede verschiede verschiede verschiede verschiede verschiede verschiede v

SOUTHER REPRESENTED FOR ANY AREA SELECT LIBERTY SELECTION

gy that is for the confirmation

egignete diliti

Tele: (602) 267-6662

Local 3 sec. Status - 1/0 sec.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

GROUP ART UNIT 244'
RECEIVED

JUN 1 9 1981

GROUP 340

In re Application of RICHARD F. STOKES ET AL

Serial No. 235,794

Filed: February 19, 1981

FOR:

COMPRESSOR BLEED AIR CONTROL APPARATUS AND

METHOD :

NO

DISCLOSURE STATEMENT

Hon. Commissioner of Patents & Trademarks

Phoenix, Arizona 85010

Washington, D. C. 20231

May 27, 1981

Dear Sir:

In the course of preparation of the above-identified application, a search was conducted in the files of the U.S. Patent and Trademark Office. Enclosed are copies of references located in that search as listed in the accompanying form which is modelled after Form PTO-1449 but modified, among other reasons, to match typewritten spacing.

The relevance of these references is that they were located in the subject search and that they relate to the control of valves in various pressure regulating systems.

Written notification that these references have been considered in their entirety by return of a copy of the enclosed form, completed by the Examiner, is respectfully solicited.

Respectfully submitted.

HSB 401452

Richard Konneker
 Attorney for Applicants
 Registration No. 28,867

'JUN 1 9 1981

	TTA	CHMENT TO PA			7, 1981 CROU	D 340	Sheet 1	-	
15.4		U.I	DEPARTMENT D	FICOMMENCE	ATTY. DOCKET NO.	- 340	SERIAL NO.		
7.76	.m o.	P POCTINETION			TE-4086		235,794		
TE B		F DOCUMENTS APPLICAN	•	BY	RICH	ARD F.	STOKES	ET AL	
UIN	3				FEB. 19, 1981 343				
Excelle	1 8	 	T	U.S. PATENT	DOCUMENTS				
		DOCUMENT NUMBER	BATE		TAME	CLASS	BUBCLASS	IF APP	G DAT
	14	3,364,837	1/23/68	SCHOOL:	ING			<u></u>	
1/	AB	3,373,675	3/19/68	BEST					
V	AC	3,441,045	4/29/69	MALONE					
V	AD	3,706,270	12/19/72	FURLONG	· ·				
V	AE	3,728,955	4.24.73	RICAUD		·-			
<u>/</u>	AF	3,842,720	10/22/74	HERR					
	AG	Company of							
	AH	•							
	AT		100						
	LA	·	1 1						
	AK				······································				
	AK		for	IEIGH PATEN	T DOCUMENTS				
		DOCUMENT MUNDER	POI	LEIGN PATEN	 	CLASS	BUOCLASS.	TRANSL.	
	AK	DOCUMENT NUMBER			 	CLAM	SUOCLASS		
		DOCUMENT NUMBER			 	CLASS	SUDCLASS		
	AL	DOCUMENT MUNICA			 	CLASS	SUBCLASS		
	AL AM	SOCUMENT NUMBER			 	CLASS	SUBCLASS		
	AL AM	DOCUMENT MUNICA		COUN	 	CLASS	BUBCLASS		
	AL AM AM AO AP	OTHER DOCUME	DATE	COUNT	TRY		SUBCLASS		
	AL AM AM AO AP		DATE	COUNT	TRY		SUOCLASS		
AR	AL AM AM AO AP		DATE	COUNT	TRY		SUBCLASS		
AR	AL AM AM AO AP		DATE GACA	COUNTY Avenue	Title, Date, Partinant I		SUBCLASS		
	AL AM AM AO AP		DATE	COUNT	Title, Date, Partinant I		BUSCLASS		
	AL AM AM AO AP	OTHER DOCUME	DATE GACA	COUNTY Avenue	Title, Date, Partinant I		SUBCLASS		
	AL AM AM AO AP	OTHER DOCUME	DATE GACA	COUNTY Avenue	Title, Date, Partinant I		SUOCLASS		
AR AS	AL AM AO AP	OTHER DOCUME	DATE GACA	COUNTY AUDION	Title, Date, Partinant I	Pagea, Etc.)	BUBCLASS		47100

SERIAL NUMBER FILING DATE	Address COMMISSIONER OF Washington DC 2	PATENTS AND TRACES
SERIAL NUMBER FILING DATE	FIRST NAMED APPLICANT	ATTORNEY DOS
		EXAMINER
in the second of	:	••
	TRA	LIMIT PAPER FO
	· · · ·	. 4

This application has been examined A shortened statutory period for response to Failure to respond within the period for respond to	this action is set to entire conse will cause the applica IT(5) ARE PART OF THIS SAMINEL PTO-892	ation to become aban.		This action is made that
Part I Notice of References Cited by E Notice of Art Cited by Applicant Information on How to Effect Dra	this action is set to entire conse will cause the applica IT(5) ARE PART OF THIS SAMINEL PTO-892	ation to become aban.		•
Part I Notice of References Cited by E Notice of Art Cited by Applicant Information on How to Effect Dra	IT(5) ARE PART OF THIS	The second abalia	doned. 25 AS.C. 1	he Gate of this retter.
Part I Notice of References Cited by E Notice of Art Cited by Applicant Information on How to Effect Dra	IT(5) ARE PART OF THIS	The second abalia	doned. <u>25 D.S.C.</u> 1	
Notice of References Cited by E Notice of Art Cited by Applicant Information on How to Effect Dra	saminer, PTO-492	ACTION:		33
Notice of References Cited by E Notice of Art Cited by Applicant, Information on How to Effect Dra	saminer, PTO-492			
monistron on now to Effect Dra	. PTO-1449	2. House	ce re Palent Brawing,	070
monistron on now to Effect Dra	• • • • • • • • • • • • • • • • • • • •	4. Ti Notic	ce of informal Pares	FIU-Deg.
	wing Changes, PTO-1474	6. 🗒 🔔		Application, Form PTO-152
Part II SUMMARY OF ACTION				
The state of the s				
1. Ctams	:	-		
Q				are pending in the applica
Of the above claims	41-52			
·				are withdrawn from Consid-
2. Claimse.				
				have been Cancelled.
3. Claims				Ate Manual
11/2 /-7 10-	16 10 10			are smorieu.
4. Cisims 1-7, 10-1	1 27-40			afe rejected.
5 V Claums 8, 9 17.	12			•
5 Claims 8, 9, 17.				are objected to.
6. Claims				
·.				inction or election require:
7. This application has been filed will mater is indicated.				
8. Allowable subject matter having be	en indicated, formal grawin	OF5 are required to re-	sponse in this Office	
9. The corrected or substitute drawing	gs have been received on		These grawing	S are acceptable:
not acceptable free explanation	on).			deeck table.
D. The Disposed drawing correction				
The proposed granting consection	on and or the proposed	additional or substitu	ute sheet(s) of aracin	gs, fried on
has (have) been approved by t	the examiner disapprov	ved by the examiner (see explanation).	
L The proposed drawing correction f	tled			•
The proposed drawing correction, f the Patent and Trademark Office no corrected. Corrections MIST be ef-	longer makes drawing chi-	, nas been [j ai	pproved, [_] disapp	ricved (see explanation). I
Corrected. Corrections MUST be ef	fected in accordance with a	liges. It is now apple	cant's responsibility	to ensure that the drawings
EFFECT DRAWING CHANGES", P	TO-1474.	ine matinetions set to	ir on the attached lett	EI "INFORMATION ON HO
•				
2. Acknowledgment is made of the cla-	im for priority under 15 U.S.	.C. 119. The certifie	d copy has (17) been	Hereived nul base
been filed in parent application	n, serial no.	: filed	บก	
Since this suctions	The second second	•.		
Since this application appears to be	In condition for allowance	except for format ma	tiers, prosecution as	to the ments is crosed in
accordance with the practice under	Ex parte Quayte, 1935 C.D). 11; 453 O.G. 213.		
- [] Other				
<u> </u>				
				•

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-40, drawn to a compressor control apparatus, classified in Class 60, subclass 39.07.
- II. Claims 41-52, drawn to a compressor control process, classified in Class 60, subclass 39.02.

The inventions of groups I and II above are distinct because the process of group II can be practiced with apparatus materially different than that of group I, and the apparatus of group I can be used in conjunction with a process materially different than that of group II (MPEP 806.05(e)).

Because the inventions are distinct for the reasons given above and require separate classification and divergent fields of search, restriction for examination purposes as indicated is proper.

During a telephone conversation on 8/27/82, applicants' representative, Mr. Konneker, elected the invention of group I (claims 1-40). The election was made with traverse. An action on the merits of elected claims 1-40 is set forth below and non-elected claims 41-52 are withdrawn from consideration.

Claims 1-5, 11-15, and 21-40 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which the applicant regards as his or her invention. Claims 1-5 and 11-15 recite "flow rate" as a sensed, control parameter. This limitation is inaccurate

and misleading since the invention, as discloses, senses pressure and not flow rate.

Claims 21-40 recite "air flow" or "flow" as the control parameter. While the intended meaning of these terms are not entirely clear, they appear to connote "flow rate" and are deemed inaccurate for the same reasons as are claims 1-5 and 11-15.

In claims 28, 31, 34, and 37, reference to a predetermined mode of operation is vague and ambiguous.

Claims 1 and il are rejected under 35 U.S.C. 102(b) as anticipated by Metot et al because the invention was patented or described in a printed publication in this or a foreign country, more than one year prior to the date of the application for patent in the United States. Attention is called to sensor 20, error signal generator 26 and dump valve 18.

Claims 1-3, 6, 10-13, 32, 37, 39, and 40 are rejected under 35 U.S.C. 103 as being unpatentable over Shell in view of Rateau or Metot et al. Although, the invention is not identically disclosed or described as set forth in section 102 of Title 35 U.S.C., the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains.

Shell discloses a compressor control system including surge control passage 9 with valve 10, P and \triangle P sensors 3 and 11, dividing circuit 14, and controller 15.

emotes in the district American mass and it

· 1985年 - 1985年 - 1986年 - 1987年 - 19874 - 1987年 - 19874 - 19874 - 19874 - 19874 - 19874 - 19874 - 19874 - 19874 - 198

ESCALA ROMANTO CONTRACT

HORATO THE CHAIR WAR TO BE SOUTH

and the second of the second

general commence of

san in Adam in 18

Electrical Community

and partial of a

.. 1772 L 3.50

eg skupe fattar e se tv. 15.

and the second second

Barrier to the time of the

ART ARE BELLEVILLE

San Arranga Pakan

SAUDIN TO SERVICE BERTHAND SERVICE SERVICES

Controller 15 compares the quotient from circuit 14 with set point 16; note that the controller in figure 2 has both proportional and integral action.

三者的现在分类。 "你是多

It is further noted that Shell's surge control outlet recycles air to the compressor inlet. Applicants' claims are not interpretted as specifically precluding this, but even if they were so interpretted, the provision for dumping instead of recycling this air is well known in the art as evidenced by Rateau and Metot.

Claim 7 is rejected like claims 1-3, 6, 10-13, etc. above and in view of Best. The pressure difference employed in the control parameter of the Shell system is taken across an orifice, however, the use of the difference between total and static pressure would be an obvious alternative since it has been applied in other similar systems. See for example, the embodiment of Figure 5 of Best; note pressure taps and 196 and 198, and note also that these taps may be located in the compressor discharge (column 8, lines 4-7). Furthermore, it is pointed out that Rateau provides an additional example of the use of total and static pressure; note elements 1 and m.

Claims 16, 19-22, 27-29, and 38 are rejected like claims 1-3, 6, 10-13, etc. above and in view of Lewis. The Shell control system is obviously applicable to any dynamic compressor including gas turbine driven compressor means such as those disclosed by Lewis. Note also that the Lewis device is intended for aircraft use and thus the addition of an attitude compensation feature to the control system would be an obvious expedient.

Banner and Schlirf are cited as further pertinent examples of prior art.

Claims 8, 9, 17, and 18 will be allowed if rewritten in independent form. Claims 4, 5, 14, 15, 23-26, 30, 31, and 33-36 will also be allowed if amended to overcome the rejection under 35 USC 112 and rewritten in independent form.

The prior art submitted by applicants is noted but will not be cited or fully considered because of applicants' failure to provide an appropriate "explanation of the relevance of <u>each</u> listed item" as required by 37 CFR 1.98(a). Applicants' broad statement that the references "relate to the control of valves in various pressure regulating systems" is not deemed an adequate explanation of relevance.

L.J.Casaregola:mlr 703 557-3464 9/13/82

EXAMINER
THINT 3/3

TO SEPARATE, HOLD TOP AND BOTTOM EDGES, SNAP APART AND DISCARD CARBON

		M PT(U.S. I	DEPAR	TMENT OF COMP	MERCE OFF.CE	235	- 1	S4-S		ATTACH TO PAPI NUMI	ER	4
्रवाह पुर भारतस्य ्रात्रास्य विद्यारिता स्टाप्टर	· a t	N	OTICE	OF I	REFE	RENC	ES CITED		APPLICANT:	Stokes	हा.	¥/			
								U.S. PATE	NT DOCUM	ENTS		т	uu. I.	11.1% . ;	
es bewester as mouse b	•		DOC	UMEN	NT NO		DATE		NAVE		CLASS			APPR NP	
	1 1	4	65	12	1/2	72	2/4/13	Ro	teau		75	-2	7		
		B /					9/25/15		IN TI		715	2	7		
the Charleson of the Addition	Γ	c /		1.	1 1	- 1	8/1/61	1	urs es	F-1	11	20	16		
	\vdash	- -	199	1	4	7	1			-7/	1	1			
		93	10	47	12	10	7/3/62					27			
egyer yalancı alı anyakı lüş ê		E 3	136	[]		21	1/9/68		Wirt		 -	27			
The second section is the second section of the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is section in the second section in the second section is section in the second section in the second section is section in the section in the section in the section is section in the section in the section in the section is section in the section in the section in the section is section in the section in the section in the section is s		F 3	4	1/	10	02	MAKS	Me	tet et	2/	415	27			
	17	G											.		ì
	1-	н	11	1-	\Box	\top									
	-	+	++	+-	+	+	 	27			+	†-			i
Andrew Company of the Company		4	1-1	4_	1!				·.			╂			 . i
ingskriggger i kraustat i kan. National		J	$\perp \downarrow$	1	11			ļ	·		 -	-			
en en en en general de la gradie de la companya de La companya de la co		к		<u> </u>				<u> </u>				1			
with the second					-	٠.	F	OREIGN P	ATENT DOC	UMENTS					
		T	00	CUME	NT NO	u.	DATE	f ccs	JNT RY	WAME		LASS	SUB- CLASS		S. PP.
	-	+	TT	Τ.	T		alali:	C4	منر: س	Shell		415	27		
		-	10.	2/	14	9 7	3/9/66	64,1	nort.	Shell		•	-	\dashv	
Maring and Artifaction of the State of the S	4	M	14	_	-		ļ		·	 					
		N								<u> </u>			<u> </u>		
		0												_	. !
•		Р	T	\top	П						1				
			+-	\dashv	1-1										
	ال د			!			REFERENCES	Uncludin	u Author 3	L. Date Pr	ertinent F	ages.	 Etc.)		'
					O I-H	EKF			N AGUIOI, I						
		R -					·····								
															<u> </u>
		П							•						
		s													
		\vdash							-	. <u>-</u> -					
	:	┰┞						· ·							
	-	Ц					 -								
	ļ														
] [_				
	1	AMIN					DAT		,		- H	SR 4	10145	9	
A CHARLEST A STATE OF SAME		_	2	(u			131/82			·				
					•	A co	ppy of this reference Manual of Pa	erence is natent Exa	ot being fur mining Proc	rnished with t edure, section	this offic n 707.05	e actio (a).)	on.		÷. ·

CASE DOCKET NO. TE-4086

THE GARRETT CORPORATION ATTENTION: PATENT DEPARTMENT 111 SOUTH 34TH STREET P.O. BOX 5217 PHOENIX, ARIZONA 85010

DATE: October 25, 1982

IN RE APPLICATION OF: RICHARD F. STOKES et al

SERIAL NO.: 235,794

FILED: February 19, 1981

FOR: "COMPRESSOR BLEED AIR CONTROL APPARATUS AND METHODS"

THE COMMISSIONER OF PATENTS & TRADEMARKS

Washington, D. C. 20231

Sir:

医动脉 医丘耳囊 医心囊内静脉

· 经自己基础 与自动的

d the

Transmitted herewith is an Amendment in the above-identified application.

The additional fee, if any, required because of claims added by this Amendment, is calculated below:

	•	CLAIM	S AS AMENDED			
	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NO. PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE	ADDITIONAL_ FEE
TOTAL CLAIMS	* 23	MINUS	52	= 0	x \$10	0
INDEP. CLAIMS	**	MINUS	9	= 0	x \$30	0
		\$ 192 FL		DITIONAL FEE		0

If this application was filed before Detobar 1, 1982, and this number is less than 16, enter 10 in this space. It this application was filed on ar after October 1, 1982, and this number is less than 20, enter 20 in this space.
 If this application was filed on or after October 1, 1982, and this number is cless than 3, outer) in this space.

Charge the above calculated additional claim fee plus any additional fee(s) required to secure entry of this Amendment, or credit any overpayment, to The Garrett Corporation Deposit Account No. 07-0145. A duplicate copy of this sheet is provided.

I hereby certify that this correspondence is being depose of all the United to the Postul Service as first their mail and the service of Uncored to:

J. Richard Konneker
Attorney for Applicants
Registration No. 28,867
(602) 267-6662

D. OCTOBER 25, 1982

A. Kichard Kounellev 10/25/82

S. Richard Konneker, Reg. 28,867

DATE

HSB 401460



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

GROUP ART UNIT 343

EXAMINER: L. J. CASAREGOLA

RECEIVED

Nuv + 12-

GROUP 340

In re Application of RICHARD F. STOKES et al

Serial No. 235,794

Filed: February 19, 1981

) FOR: COMPRESSOR BLEED AIR
) CONTROL APPARATUS AND
) METHODS

AMENDMENT

Hon. Commissioner of Patents & Trademarks

Phoenix, Arizona 85010

Washington, D. C. 20231

October 25, 1982

Dear Sir:

Responsive to the Office Action dated September 17, 1982, please amend the above-identified application as follows:

IN THE SPECIFICATION:

On page 14, line 7, delete "sume" and insert --sum-- in place thereof, and in line 8 delete "magnitude" and insert --magnitudes-- in place thereof.

IN THE CLAIMS:

Cancel Claims 1-3, 6, 7, 11-13, 16, 21, 22, 28, 29, 31, 32, 34, 37, and 41-52 without prejudice.

Rewrite Claims 4, 8, 14, 17, 23, 30, 33 and 35 in independent form as follows.

SERIAL NO. 235,794
Page 2
7-A. (Amended) [The] A system [of Claim 1 wherein] for supp
2 ing gas discharged from a compressor or the like to gas-operated
apparatus having a variable gas flow rate demand, the compressor
4 [has] having an inlet opening and means for variably adjusting the
5 area of such inlet opening, said system comprising:
6 (a) duct means for flowing to the gas-operated apparatus
gas discharged from the compressor;
(b) means defining a surge outlet passage from said
duct means;
(c) surge flow regulating means operable to variably
restrict gas flow outwardly through said surge outlet passage;
12 [said means (d) include]
(d) means for sensing the value of a predetermined flow-
14 related parameter within said duct means and generating an error
signal having a magnitude indicative of the deviation between the
sensed value of said parameter and a desired value thereof, said
sensing and generating means including comparator means for compar-
18 ing the sensed value of said parameter to a set point value thereof
19 and responsively generating said error signal [,];
(e) control means for utilizing said error signal to
operate said surge flow regulating means in a manner providing an
essentially constant minimum gas flow rate through said duct means
despite fluctuations in the flow rate of gas received by the gas-
operated apparatus; and [said system further comprises]
25 (f) means associated with said comparator means for vary-
26 ing said set point value of said parameter in response to variation
in the area of the compressor inlet opening

ing parameter for the second at a second

SERIAL NO. 235,794	
process and the contract of th	
<i>3.</i>	
8. (Amended) [The control system of Claim 7 wherein the compressor is of a typol by the control system of claim 7 wherein the compressor is of a typol by the control system of compressor is of a typol by the control system of compressor is of a typol by the control system of compressor is of a typol by the control system of compressor is of a typol by the control system of claim 7 wherein the control system of compressor is of a typol by the control system of claim 7 wherein the control system of compressor is of a typol by the control system of claim 7 wherein the control system of claim 7 wh	ě
cype A Control system for modulation	
bleed valve positioned in a surge bleed outlet passage of bleed duct means adopted.	
adapted to receive air discharged from a con-	•
and supply the air to pneumatically-operated apparatus having a variable supply air demand, the compressor having adjustable inlet quide vanes.	
inlet guide vance	
said control system comprising:	
(a) means for generating an error signal indicative	<u>of</u>
the difference between the actual magnitude of a selected flow-	
related parameter within the bleed duct means and a desired value of said parameter, said error air	
of said parameter, said error signal generating means including:	
(1) means for sensing the difference between the	<u>:</u>
total pressure and the static pressure within the bleed duct means and transmitting a few second state of the static pressure within the bleed duct means	
and transmitting a first output signal indicative of the sensed pressure differential,	•
16	
(2) means for sensing the total pressure within	
the bleed duct means and transmitting a second output signal	
indicative of the sensed total pressure,	٠
(3) means for generating a sensed parameter signa	11
a magnitude equal to the magnitude of said first output	_
signal divided by the magnitude of said second output signal, and	
(4) comparator means for receiving enid	
Purameter signal and at least and	
value of said parameter, and for responsively generating	
5 said error signal;	
(b) first control means for receiving said orres	
signal and transmitting an output signal having a magnitude	
8 portional to the magnitude of said error signal;	
naduat!	

SERIAL NO. 235,794 . . .

en participal de la companya de la c THE RESERVE AND THE SECOND SEC in the second results and the second results and the second results and the second results and the second results are second resul . Day temperatura kendi penjan dang pilanggan dang pinjan dang dipunjah kendinag beranggan beranggan

ng kang dinang digit salah di kacamatan digit salah digit dinang digit salah dinang digit salah di dinang di d

n la geografia de la mercia de la companya della companya de la companya de la companya della companya della companya de la companya de la companya della co

				rage 4
•				
erete del est	en e	(c) second co	ontrol means for :	receiving said error
		signal and transmitting ar	output signal h	aving a magnitude
		representing the integral,	as a function of	time, of the magni-
	gergger a name 2	tude of said error signal;	[and]	
		(d) means for		tilizing said output
		signals from said first an	id second control	means to modulate the
	5 , 22, 33	surge bleed valve in a man	ner assuring that	the minimum air flow
	6 ()	rate through the bleed duc	t means is of a s	ubstantially constant.
8/873 Tel		predetermined magnitude re	gardless of the s	upply air demand of
5 N. A.	8 - 1	the pneumatically-operated	apparatus; and [said control system
. # 19 J D	ang persaman an an <mark>9</mark> 1 k an	further comprises]		· .
	0	(e) guide van		means for transmitting
i Hijeloga izelik	g saeburen e <mark>t</mark> er es	said reset signal to said of	comparator means,	said reset signal
	engaga sewi sa peranggan	varying as a function of the	ne position of the	e inlet guide vanes
		according to a predetermine	ed reset schedule.	
		AND	And the second second	

3 B. L. 19 FRY

HORE FOR BUILDING SERVICE OF FEEL

alla reporte desposationes.

es entre ar in the entre, in the s

1. 计比较图象的程

SERIAL NO.	235,794	D
	,	Page ?

(Amended) [The control apparatus of Claim 13 further comprising] For use with an air supply system for pneumaticallypowered apparatus having a variable supply air demand, the system including a supply duct interconnected between a compressor and the pneumatically-powered apparatus and having a surge outlet passage in which is positioned a surge bleed valve, control apparatus for modulating the valve comprising:

- (a) means, responsive to a variation in the flow rate of compressor discharge air through the supply duct, for producing an error signal having a magnitude indicative of the degree of deviation, from a desired minimum flow rate, of the actual flow rate through the supply duct;
- control means for utilizing said error signal to modulate the surge bleed valve in a manner such that, subsequent to an initial opening of the valve, the air flow rate through the supply duct remains substantially constant regardless of the degree to which the valve is further opened, whereby the valve is controlled along an operating line substantially parallel to a surge line of the compressor, said control means including means for receiving said error signal and responsively transmitting to the surge valve a control signal whose magnitude has, relative to the magnitude of said error signal, both a proportional component and a time-integral component, said means for receiving said error signal including a proportional controller, an integral controller and a summer, said proportional and integral controllers being coupled in parallel between said error signal-producing means (a) and said summer, said summer having an outlet coupled to the surge valve; and
- (c) means for automatically deleting said time-integral component from said control signal while said error signal exceeds a predetermined magnitude. --

SERIAL NO. 235,794

	in said compressor has] A gas turbine engine accessory power unit
	having a fluctuating compressed air supply demand, said accessory
	power unit comprising:
The state of the s	(a) a compressor having adjustable inlet guide vanes[,
	(b) duct means for receiving compressed air discharged
光彩编制工程。2017年1月1日 1月1日	from said compressor and supplying the received air to the
	pneumatically-powered apparatus;
	(c) surge bleed means operable to exhaust from said
.0	duct means a selectively variable quantity of air to assure at
.1	least a predetermined minimum flow rate through said duct means and
.2	thereby prevent surge of said compressor;
	(d) sensing means for sensing the value of a pre-
.	determined, flow-related parameter within said duct means and
1. The control of the	generating an output signal indicative of said value, [the] said
6	value of said flow-related parameter [is] being substantially
	independent of the temperature of the compressed air [,]:
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	(e) comparator means for receiving said sensing means
(a) (a) (a) (a) (a) (b) (b) (b) (b) (b) (b) (b) (b) (b) (b	output signal and generating an error signal representing the
0	difference between the sensed value of said parameter and a
and the state of t	desired value thereof, said comparator means [have] having an
. (1) (1) (1) (1) (1) (1) (2) (1) (1) (2) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	adjustable control set point representing said desired value of
$(y_{\mu} + \boldsymbol{j}_{\mu \nu}) = (y_{\nu} + \boldsymbol{j}_{\nu}) + (y_{\nu} + \boldsymbol{j}_{\nu}) + (y_{\nu} + \boldsymbol{j}_{\nu}) + \boldsymbol{j}_{\nu} + $	said parameter [, and said accessory power unit further comprises];
4	(f) means for transmitting to said comparator means
5	a reset signal for varying said set point as a function of the
	position of said inlet guide vanes in accordance with a predeter-

SERIAL NO. 235,794 Page 7
[(f)](g)
[(f)](g) control means for receiving said error
signal and transmitting to said surge bleed means a control signal
to operate said surge bleed means, the magnitude of said control
signal having, relative to the magnitude of said error signal,
a proportional component and an integral component,
whereby said minimum flow rate through said
duct means is essentially constant regard-
less of the compressed air supply demand
of the pneumatically-powered apparatus
23. (Amended) [The device of Claim 22 wherein said com-
pressor means include] A gas turbine engine device comprising:
(a) drivable compressor means for receiving,
compressing, and discharging air, said compressor means having adjust-
able [compressor] inlet guide vanes[,];
(b) combustor means for receiving compressed air dis-
charged by said compressor means, mixing the received air with
fuel, burning the fuel-air mixture, and discharging the resultant
expanded gas;
(c) turbine means, positioned to be operated by the
expanded gas discharged from said combustor means, for driving said
compressor means and creating a power output from said gas turbine
device;
(d) a bleed air system including:
(1) main bleed duct means for receiving air
discharged from said compressor means, said main bleed duct means
having a branch supply portion for flowing compressed air to
pneumatically-operated apparatus having a fluctuating compressed
air supply demand, said main bleed duct means further having a
surge bleed outlet portion for exhausting air from said main bleed
duct means,
HSB 401467

SERIAL NO. 235,794 . . .

Same of the flow regulating means operable to vary the flow rate of air exhausted through said surge bleed output portion of said main bleed duct means, and surge bleed control means for operating said flow regulating means to assure an essentially constant minimum air flow rate through said main bleed duct means despite fluctu-ations in the air flow rate through said branch supply portion of said main bleed duct means, said surge bleed control means being a di Para Barana 👸 responsive to variations in air flow through said main bleed duct means and including means for integrally and proportionally controlling said flow regulating means, said surge bleed control means further including means for sensing a predetermined, flow-related parameter within said main bleed duct means and generating an output 5 signal indicative of the sensed value of said parameter, comparator means for receiving said sensing means output signal and generating 6 an error signal indicative of the variation between the actual magnitude of said sensing means output signal and a desired set point value thereof, said means for integrally and proportionally controlling said flow regulating means including means for receiving said error signal and converting the same to a control signal whose magnitude, relative to the magnitude of said error signal, has both a proportional and a time-integral component; and [said device further comprises! (e) means, connected between said inlet guide vanes and said comparator means, for varying said set point value as a

function of the position of said inlet guide vanes .--

SERIAL NO. 235,794 . .

Section 1985 State Conference of the Conference	ty 1.188 - by 1.488 -
	-36. (Amended) [The device of Claim 29 wherein] A gas
	turbine engine device comprising
	(a) drivable compressor means for receiving, com-
•	pressing and discharging air-
Branch and American Comment & The	(b) combustor means for receiving compressed air
	discharged by said compressor means, mixing the
 State to the second region of the second region region of the second region of the second region regi	fuel, burning the fuel-air mixture, and discharging the resultant
	expanded gas;
	ATT COLDING MEANS, DOSITIONED to be
	compressor means and creating a power output from said gas turbine
Action of the second of the second	device; and
	(d) a bleed air system including;
	(1) main bleed duct means for receiving air
	discharged from said compressor means, said main bleed duct means
6	having a branch supply portion for flowing compressed air to
1. 操作器 (1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	pneumatically-operated apparatus having a fluctuating compressed
8.5	air supply demand, said main bleed duct means further having a
	surge bleed outlet portion for exhausting air from said main bleed
en e	duct means,
e sael at with the Text	(2) flow regulating means operable to vary the
erengia error pere e z	flow rate of air exhausted through said surge bleed output portion
11 4 4 5 1 4 5 1 1 1 1 1 1 1 1 1 1 1 1 1	of said main bleed duct means, said flow regulating means [include]
4	including a normally open surge bleed valve, and
inga nganggan ganggan 5 4 mg	
9 - 9 - 1944 - 1944 - 1 86 - 194	(3) surge bleed control means for operating said flow regulating means to assure an essentially constant minimum
7	air flow rate through said main bleed duct means despite fluctuations
3	in the air flow rate through said branch supply portion of said
	TF-1 POLCION OI SHIU

Regulate to the tip of the second

and the second s

医鼠虫病 电自动 人名英格兰人 医格尔克斯特氏病

Therefore the control of the first than the tryet.

人名西西西西 医骨头皮膜 化氯甲 医马马克斯氏征 医人名比克特 电电流电影器

A Service Commission of the Co

SERIAL	NO -	225	704	4	5. 3		1.7	è.		6.0	C.										
	110.	235,	174	•	•	•	•	•	•	•	•	. •	•	•	•	•	•	•	•	Page	10

	main bleed duct means, said surge bleed control means being
	responsive to variations in air flow through said main bleed duct
eg in	means and including means for integrally and proportionally con-
in se	trolling said flow regulating means, said surge bleed control
	means further including proportional controller means for receiving
	said error signal and generating a first output signal, integral
	controller means for receiving said error signal and generating
·	a second output signal, and means for simultaneously utilizing
\$ 5	the first and second output signals to operate said flow regu-
	lating means, said surge bleed control means further [include]
	including means for deactivating said integral controller means
.4	during periods when said error signal exceeds a predetermined
,	magnitude

SERIAL NO. 235,794

	•	
		33. (Amended) [The control system of Claim 32 further
		comprising A control system for assuring a substantially con-
		stant minimum flow rate through a duct receiving air discharged
	nd a de la	from a compressor or the like, the duct having a supply outlet
	Minerie wer	connected to pneumatically-operated apparatus having a variable
	Alandra 1881.	
	A. Peruse požir	control system comprising:
		(a) a flow regulating device adapted to be positioned
		in the exhaust outlet and operable to selectively vary air flow
Constitution and	- 0	outwardly therethrough;
terisar eget, etg. e	Notes - Declarate	(b) a sensing device having a sensing portion adapted
nan Sami		to be positioned in the duct to sense therein a predetermined
•	. 3	parameter related to the air flow rate through the duct, said flow
	4	sensing device further having an output portion;
	5	(c) an adjustable set point comparator having an input
. •	6	portion coupled to said output portion of said sensing device, and
•	7	an output adapted to generate an error signal;
	8	(d) a proportional controller having an inlet coupled
• .	9	to said outlet of said comparator and further having an outlet;
	0	(e) an integral controller having an inlet coupled
· · · · · · · · · · · · · · · · · · ·	1 .	to said outlet of said comparator and further having an inlet;
	2	(f) a summer having a first inlet coupled to said
	3	outlet of said proportional controller, a second inlet coupled to
	4	said outlet of said integral controller, and an outlet coupled to
	5	said flow regulating device; and
	6	(g) a kicker connected between said outlet of said
	7	comparator and said integral controller to deactivate said integral
	8	controller when said error signal reaches a predetermined magnitude

	SERIAL NO. 235,794
terino di Lova di Posto di Posta di Pe sa di Pesa. Penanggaran	o ma Marketin de la companya de la c La companya de la co
。 《西西大学》中,大学教育中,《范围教》中	the said the desired the said
୍ୟାଧାର ପ୍ରଧାନ ଓ ପ୍ରଥମ ଓ ଅନ୍ତର୍ଶ କର ଣ ଅଟେ । ଆଧାର	compressor has] A control system for assuring a substantially
4	constant minimum flow rate through a duct receiving air discharged
Algeber See Gert	from a compressor or the like having adjustable inlet guide vanes,
;	the duct having a supply outlet connected to pneumatically-operated
•	apparatus having a variable supply air demand, the duct further
Distinguis de la la de la	having an exhaust outlet, said control system comprising:
Market Commence of the Commenc	(a) a flow regulating device adapted to be positioned
	in the exhaust outlet and operable to selectively vary air flow
2	
3	(b) a sensing device having a sensing portion adapted
4	to be positioned in the duct to sense therein a predetermined
5	parameter related to the air flow rate through the duct, said
6	sensing device further having an output portion;
7	(c) an adjustable set point comparator having an input
. 8	polition coupled to said output portion of said sensing device and
are a proposition of the section of	an outlet adapted to generate an error signal;
• • • • • • • • • • • • • • • • • • •	(d) a proportional controller having an inlet coupled
1	to said outlet of said comparator and further having an outlet;
- ,	(e) an integral controller having an inlet coupled
- 	to said outlet of said comparator and further having an inlet;
and the second of the second of	(f) a summer having a first inlet coupled to said outlet
•	of said proportional controller, a second inlet coupled to said
in the second se	outlet of said integral controller, and an outlet coupled to said
	(g) a guide vane position sensor and a function generator
	coupled in series between the inlet guide vanes and said input portion of said comparator
i kanna kana mana ing m	or said comparator

TORRESPONDE NEEDS AND AND

guiges of the little of the state in

CLERCHE DA FERRE LE ACT

The second secon

而是自身相對為

SERIAL NO. 235,794 . .

Change the dependency of Claims 10, 19, 20, 27, 38, 39, and 40 as follows:

In Claim 10, line 1, delete "6" and insert --8-- in place thereof, and delete "element" and insert --elements-- in place thereof.

In Claim 19, line 1, delete "16" and insert --17-- in place diversity of the section of the sect

jjese pojektora i kalendeka kratek i ina u krate koku In Claim 20, line 1, delete "16" and insert --17-- in place thereof.

In Claim 27, line 1, delete "21" and insert --23-- in place thereof.

In Claim 38, line 1, delete "32" and insert --35-- in place thereof.

In Claim 39, line 1, delete "32" and insert --35-- in place mission with a contract the word "flow".

In Claim 40, line 1, delete "32" and insert --35-- in place thereof.

REMARKS

Reconsideration of this application, as amended herein, is respectfully requested.

Claims 1-52 were originally presented for consideration in this application. Claims 41-52 have been withdrawn from consideration and are now the subject of a divisional application (serial number not yet received) filed pursuant to 37 CFR 1.60 on September 27, 1982. Accordingly, Claims 41-52 have been cancelled without prejudice in the instant application.

In his September 17, 1982 Office Action the Examiner rejected Claims 1 and 11 under 35 U.S.C. 102, and rejected Claims 1-3, 6, 7, 10-13, 16, 19-22, 27-29, 32, 37, 38, 39 and 40 under 35 U.S.C. 103. Claims 28, 31, 34 and 37 stand rejected under 35 U.S.C. 112 due to their recitation of the phrase "predetermined mode of operation". By the present amendment Claims 1-3, 6, 7, 11-13, 16, 21, 22, 28, 29, 31, 32, 34 and 37 have been cancelled without prejudice.

The Examiner has also indicated that Claims 8, 9, 17 and 18 would be allowable if rewritten in independent form, and that Claims 4, 5, 14, 15, 23-26, 30, 31 and 33-36 would also be allowable if rewritten in independent form and amended to overcome certain 35 U.S.C. 112 rejections. By the present amendment Claims 4, 8, 14, 17, 23, 30, 33 and 35 have been rewritten in independent form, and Claims 10, 19, 20, 27, 38, 39 and 40 have been amended to make them dependent from one of these rewritten, allowable claims. Claims 5, 9, 15, 18, 24, 25, 26, and 36, in their originally submitted form, already depend from one of these rewritten claims.

Relative to the remaining 35 U.S.C. 112 rejections, Claims 1-5 and 11-15 were rejected on such basis because of their recitation of "flow rate" as a sensed parameter. In response to this rejection, the phrase "means for sensing the gas flow rate through said duct means and generating an error signal having a magnitude indicative of the deviation between the sensed flow rate and a desired value thereof" in Claim 1 (now directly incorporated in rewritten Claim 4) has been changed to "means for sensing the value of a predetermined flow-related parameter within said duct

The second first the second place was a second part of the second second second

means and generating an error signal having a magnitude indicative of the deviation between the sensed value of said parameter and a desired value."

This modification is seen to clearly overcome the Examiner's 35 U.S.C. 112 rejection of Claim 4, and Claim 5 which depends therefrom. Specifically, this modification more particularly specifies that while it is the flow rate through the duct means which is ultimately controlled, it is a flow-related parameter (i.e. $\frac{P_t - P_s}{P_t}$) which is actually sensed within the duct means.

In contrast, Claim 11 (now directly incorporated in rewritten Claim 14) contained no recitation that anything whatever is "sensed" within the supply duct interconnected between the compressor and the pneumatically-powered apparatus. Thus, the Examiner's objection to the term "flow rate" as a sensed parameter in Claims 11-15 is incorrect. As rewritten, Claim 14 now recites "means, responsive to a variation in the flow rate of compressor discharge air through the supply duct, for producing an error signal . . . "

Further, Claim 14 specifies control means for utilizing the error signal to modulate the surge bleed valve in a manner maintaining the air flow rate through the supply duct essentially constant.

Stated otherwise, while the control apparatus of Claim 14

controls the recited air flow rate, no specific mention is made
of any "sensed" parameter used to effect such control. Accordingly,
the term "flow rate" in rewritten Claim 14 is neither vague,
ambiguous, nor a sensed control parameter and Claim 14, and Claim
15 which depends therefrom, are thus seen to be in a condition for
allowance over the Examiner's 35 U.S.C. 112 rejection thereof.

Claims 21-40 were also rejected under 35 U.S.C. 112 on the basis that, in the Examiner's words, these claims "recite 'air flow' or 'flow' as the control parameter. While the intended meanings of these terms are not entirely clear, they appear to connote 'flow rate' and are deemed inaccurate for the same reasons as are Claims 1-5 and 11-15.*

In response to this 35 U.S.C. 112 rejection, the following amendments have been made to rewritten independent Claims 23 and 35:

- In Claim 23 the phrase "means for sensing the air flow through said main bleed duct means and generating an output signal indicative of the sensed flow rate" has been changed to "means for sensing a predetermined, flow-related parameter within said main bleed duct means and generating an output signal indicative of the sensed value of said parameter." Claim 23 now more clearly distinguishes between what is ultimately controlled (the air flow rate through the main bleed duct means) and what is actually sensed (a flow-related parameter with such duct means, such as the disclosed $\frac{P_t - P_s}{s}$). This amendment of Claim 23 is seen to clearly place such claim, and Claims 24-27 which depend therefrom, in a condition for allowance over the Examiner's 35 U.S.C. 112 rejection thereof.
- In Claims 33 and 35 the phase "a flow sensing device having a sensing portion adapted to be positioned in the duct" has been changed to "a sensing device having a sensing portion adapted to be positioned in the duct to sense therein a predetermined parameter related to the air flow rate through the duct." modification is seen to more clearly indicate that a flow-related parameter is actually sensed - not the actual flow rate.

Control of the Contro

Samuel State of the State of

Sample of the Same of the control of

en en grand de la companya de la com

grand and a state of the

in a state of the state of the

engler for had housely gates at each

化硫酸镍 植物 经过期期间的

SERIAL NO. 235,794 Page 17

Accordingly, Claims 33 and 35, and Claims 36 and 38-40 which depend from Claim 35, are now seen to be allowable over the Examiner's was as well as the same 35 U.S.C. 112 rejection thereof.

Rewritten Claim 30 does not specify the sensing of either কুল্ল । ১৯ বল সংগ্ৰহণ সংগ্ৰিক স্থান সংগ্ৰহণ কৰিব। সভাসক "flow rate" or "flow" within the duct means. Accordingly, Claim 30 is seen to be allowable over the Examiner's 35 U.S.C. 112 rejection without amendment for the reasons set forth above relative to the control of the second second rewritten Claim 14.

> In summary, all of the claims rejected by the Examiner in his September 17, 1982 Office Action have been cancelled without prejudice. All of the claims which he indicated would be allowable if rewritten in independent form have either been rewritten in independent form or depend from one of such rewritten claims. Appropriate amendments have been made to clearly overcome the 35 U.S.C. 112 rejections of certain of the claims. Additionally, two amendments have been made to the specification to correct minor typographical errors therein.

In view of the amendments made herein, and the foregoing remarks, all of the claims remaining in this application are seen to be allowable and such action is respectfully requested.

The Examiner has noted that the patents submitted with Applicants' May 27, 1981 Disclosure Statement have been noted, but will not be cited or fully considered because of, in the Examiner's words, "applicants' failure to provide an appropriate 'explanation of the relevance of each listed item' as required by 37 CFR 1.98(a)." Set forth below, in a manner specifically authorized by M.P.E.P. 609, is a "concise explanation of the relevance of each listed item "

DERIAL NO.	235,794				_										•		
			-	•,	•	•	•	•	-	•	•	•	•		Page	3 0	

as required by 37 CFR 1.98(a). In view of this listing, the Examiner is again requested to give written notification, on the form submitted on May 27, 1981, that these references have been considered in their entirety.

U.S. PATENT NUMBER	RELEVANT DRAWING FIGS.
3,364,837	Fig. 2
3,373,675	Figs. 1, 2
3,441,045	Fig. 1
3,706,270	The single figure
3,728,955	Figs. 1, 2, 3
3,842,720	Fig. 2

The Examiner is authorized to telephone the undersigned Attorney collect if such would further or expedite prosecution of this application.

J. Richard Konneker Attorney for Applicants Registration No. 28,867

Telephone: (602) 267-6662

I hereby comity that this correspondence is being deposited with a man and less Postal Service as

J. Richard Konneker, Reg. 28,867

Case 1:99-cv-0 0 309-0	CINETIAL NEWSELLINESTEE 387-8	Filed 102700/2006 ICAN	Page 31 of 37 names
			Page 31 OI WITORNEY DOCKET NO
			4
		716.	EXAMPLE
		• '	
	THE CHECK TO THERE		ART UPOT PAPER PULATRO
	一个基础,一种基础的模型。 1988年 - 第17 李明 1987年 - 20		ART UNIT PAPER MUMBER
;			6
	STATE OF THE STATE OF		DATE MAILED:
	This is a communication from the presumer in afferge of	Servery distance allows	12.478
Jan Bridge Bridge Bridge	CHANGESTONER OF PATENTS AND IN		4.42
$g(x_{\underline{\mathcal{C}}_{\mathcal{A}}},\underline{\mathcal{A}}) \approx g(x_{\underline{\mathcal{C}}_{\mathcal{A}}},x_{\underline{\mathcal{C}}_{\mathcal{A}}}) + g(x_{\underline{\mathcal{C}}_{\mathcal{A}}},x_{\underline{\mathcal{C}}_{\mathcal{A}}})$	1. HIS IS AN ATTACHMENT TO THE NUT! 2. All the claims being allowable, PROSECU	CE UF ALLUWANCE AND BASE ISSUE	** ••
and the second s	Sance or other appropriate communication wi	If be sent in due course	is application. If not attached hereto, a Notice of
	A. Note the attached PTO-157 tiers		
· •			
na cha aigh 1888. I lean aigh a' l		1350r Hatel, launcher:	n (or oath) will result in ABANDONIAENT of the a indicate the following in the upper right hand core
		Date of the Holice of Allowance :	
	B. Formal drawings are now required	I and blist at a con-	
A Company State	MENT OF THE WASE ISSUE FEE	IN THE "HUTICE OF ALLOWANCE AN	THREE MONTH STATUTORY PEHIOD SET FOR D BASE ISSUE FEE DUE" (PTOL-85). Note that
	THE STATE OF THE PROPERTY OF T	has a set of	The same recommended to the second the second
	which is addressed to the Official	the aparticularities, The gravings should be Bratism in and which indicates the follow Issue Seten transfer.	ase issue ice. failure to limity submit the draws submitted as a separate paper with a transmittal :
	and the second s	Date of the Notice of Allowance;	the state of the s
		Serial Humber	•
	The claims are allowed in view of:	1. 1	•
		1013745	
	a. Applicant's communication	filed 10/27/82	
	b. The interview sumarized or The Exampler's Amendment	the attached Examiner INTERVIEWS	
	b. The interview sumarized or The Examiner's Amendment appropriate amendment may	the attached EAAMINER INTERVIEWS attached. Should the changes	
	b. The interview sumarized or The Examiner's Amendment appropriate amendment may MUST be submitted before.	the attached Examiner Interview's attached. Should the changes the proposed by 37 CFR 1.31 of with, payment of the Base Issue Feu.	
	b. The interview sumarized or The Examiner's Amendment appropriate amendment may MUST be submitted before. d. An Examiner's Amendment	the attached Examiner Interview's attached. Should the changes the proposed by 37 CFR 1.31 of with, payment of the Base Issue Feu.	
	b. The Interview sumarized or The Examiner's Amendment appropriate amendment may MUST be submitted before. d. An Examiner's Amendment D. The allowed claims are	the attached Examiner Interview S attached. Should the changes be proposed as provided by 37 CFR 1.31 of with, payment of the Base Issue Feu.	and/or additions he unacceptable to applicant, at 2. To ensure consideration of such an amendmen
	The interview sumarized of The Examiner's Amendment appropriate amendment may MUST be submitted before. U. An Examiner's Amendment D. The allowed claims are	the attached Examiner Interviews, attached. Should the changes the jumposed as provided by 37 CFR 1.31 of with, payment of the Base Issue Feu.	and/or additions he unacceptable to applicant, a 2. To ensure consideration of such an amendmen
	D. The allowed claims are Note the attached Examiner's Statement of Real for allowance must be submitted in the for allowance must be submitted in the for allowance must be submitted in later than for allowance must be submitted in later than	the attached Examiner Interviews, attached. Should the changes the jaupoised as provided by 37 CFR 1.31 of with, payment of the Base Issue Feu. Health will juited in the course.	and/or additions be unacceptable to applicant, a 2. To ensure consideration of such an amendmen
	D. The allowed claims are Note the attached ROTICE OF REFERENCES CO.	the attached Examiner Interviews, attached. Should the changes the jaupoised as provided by 37 CFR 1.31 of with, payment of the Base Issue Feu. The payment of the Base Issue Feu. The payment of the Base Issue Feu. The payment of the Base Issue Fee, prefits on Statement of Reasons for Allowance.	and/or additions he unacceptable to applicant, at 2. To ensure consideration of such an amendment and the consideration of such an amendment and the considered necessary by applicant regarding the reasonably with it, to avoid processing delays. Such active.
	D. The interview sumarized or The Examiner's Amendment appropriate amendment may MUST be submitted before. d. An Examiner's Amendment D. The allowed claims are Note the attached Examiners Statement of Restor allowance must be submitted no later than missions should be clearly labeled, "Commen Note attached NOTICE OF REFERENCES CI Despectment to the claimed invention, but the	the attached Examiner Interviews, attached. Should the changes the proposed as provided by 37 CFR 1.31 of with, payment of the Base Issue Feu. The payment of the Course. Issues for Allowance. Any comments continue payment of the Uase Issue Fee, prefix on Statement of Reasons for Allowance. TED, 170-892, which is part of this comments.	and/or additions he unacceptable to applicant, at 2. To ensure consideration of such an amendment idered necessary by applicant regarding the reasonably with it, to avoid processing delays. Such it is a considered necessary by applicant regarding the reasonable with it.
	D. The allowed claims are Note the attached Examiners Statement of Heat for allowance must be submitted no later than missions should be clearly labeled, "Commen Note attached NOTICE OF REFERENCES CIDE personnel to the claimed invention, but the Note statement to the claimed invention, but the	the attached Examiner Interviews, attached. Should the changes the properties as provided by 37 CFR 1.31 of with, payment of the Base Issue Feu. The payment of the Base Issue Feu. The payment of the Base Issue Fee, profits on Statement of Reasons for Allowance. TEU, 1°TO-892, which is part of this completions are deemed to be patentable there.	and/or additions he unacceptable to applicant, at 2. To ensure consideration of such an amendment additional and amendment additional additiona
	D. The allowed claims are Note the attached Examiners Statement of Heat for allowance must be submitted no later than missions should be clearly labeled, "Commen Note attached NOTICE OF REFERENCES CIDE personnel to the claimed invention, but the Note statement to the claimed invention, but the	the attached Examiner Interviews, attached. Should the changes the properties as provided by 37 CFR 1.31 of with, payment of the Base Issue Feu. The payment of the Base Issue Feu. The payment of the Base Issue Fee, profits on Statement of Reasons for Allowance. TEU, 1°TO-892, which is part of this completions are deemed to be patentable there.	and/or additions he unacceptable to applicant, at 2. To ensure consideration of such an amendment additional and amendment additional additiona
	D. The interview sumarized of the Examiner's Amendment appropriate amendment may MUST be submitted before. U. An Examiner's Amendment of the submitted before. D. The allowed claims are Note the attached Examiners Statement of Restor allowance must be submitted no later than missions should be clearly labeled, "Commen Mote attached NOTICE OF REFERENCES CIDA-pertinent to the claimed invention, but the Note attached LIST OF ART CITED BY APPIFICATION of the property of applicant's prior art statement. The claims are deemed patentable thereover.	the attached Examiner Interviews, attached. Should the changes the jumposed as provided by 37 CFR 1.31 of with, payment of the Base Issue Feu. The payment of the Base Issue Feu. The payment of the Uase Issue Fee, prefits on Statement of Reasons for Allowance to the payment at the Uase Issue Fee, prefits on Statement of Reasons for Allowance IEU, 170-892, which is part of this contains are deemed to be patentable there ICAMI, PTO-1449, which is part of this references which were considered have	and/or additions he unacceptable to applicant, at 2. To ensure consideration of such an amendment addition of such an amendment additional and acceptance of such an amendment additional a
	The interview sumarized of The Examiner's Amendment appropriate amendment may MUST be submitted before. d. An Examiner's Amendment of the submitted before. D. The allowed claims are Note the attached Examiners Statement of Restore allowance must be submitted no later than missions should be clearly labeled, "Commen Mote attached NOTICE OF REFERENCES CIDE pertinent to the claimed invention, but the Note attached LIST OF ART CITED BY APPLIED TO A STATE OF THE Claims are deemed patentable thereover. The drawings filed on attached Notice or Drawings. PTO-248.	the attached Examiner Interviews, attached. Should the changes the jumposed as provided by 37 CFR 1.31 of with, payment of the Base Issue Feu. The payment of the Base Issue Feu. The payment of the United Course. Issues for Allowance. Any comments contine payment of the United State Fee, pied is on Statement of Reasons for Allowance. TEU, 190-892, which is part of this comments are deemed to be patentable there LICANT, PTO-1449, which is part of this references which were considered have	and/or additions he unacceptable to applicant, at 2. To ensure consideration of such an amendment added necessary by applicant regarding the reasonably with 11, to avoid processing delays. Such that the such as
	D. The interview sumarized or The Examiner's Amendment may MUST be submitted before. d. An Examiner's Amendment of the submitted before. D. The allowed claims are Note the attached Examiners Statement of Residuation allowance must be submitted no later than missions should be clearly labeled, "Commen Mote attached NOTICE OF REFERENCES CIDA-pertinent to the claimed invention, but the Note attached LIST OF ART CITED BY APPLY receipt of applicant's prior art statement. The claims are deemed patentable thereover. The drawings lited on attached Notice re Drawings, PTD-948. In ord be made in accordance with the instructions seemed in accordance with the instructions seemed.	the attached Examiner Interviews, attached. Should the changes the jumposed as provided by 37 CFR 1.31 of with, payment of the Base Issue Feu. The payment of the Base Issue Feu. The payment of the Units and the payment of the Units and Allowance. Any comments continue payment of the Units are allowance to the payment of the Units part of this companies are deemed to be patentable there are deemed to be patentable there references which were considered have are acceptable as flied. are are to avoid ABANDONMENT of this application the attached the patentable of the payment of the patentable that the payment of the p	and/or additions he unacceptable to applicant, at 2. To ensure consideration of such an amendment stidered necessary by applicant regarding the reasonably with it, to avoid processing delays. Such etc. munication. The fixed references are considered over the communication and serves as an acknowledgment been initiated on the form by the examiner, and the inceptable subject to correction as indicated on the leading, corrections can on the corrections can be corrected to correct to c
	The interview sumarized of The Examiner's Amendment appropriate amendment may MUST be submitted before. d. An Examiner's Amendment of Health and the attached Examiners Statement of Health and the submitted no later than missions should be clearly labeled, "Commen Mote attached NOTICE OF REFERENCES CIDE pertinent to the claimed invention, but the Note attached LIST OF ART CITED BY APPLY feccipt of applicant's prior art statement. The claims are deemed patentable thereover. The drawings filed on attached Notice re Drawings, PTD-948. In ord be made in accordance with the instructions so that the proposed drawing correction and/or has (have) been approved by the assets of the proposed drawing correction and/or has (have) been approved by the assets of the proposed drawing correction and/or has (have) been approved by the assets of the proposed drawing correction and/or has (have) been approved by the assets of the proposed drawing correction and/or has (have) been approved by the assets of the proposed drawing correction and/or has (have) been approved by the assets of the proposed drawing correction and/or has (have) been approved by the assets of the proposed drawing correction and/or has (have) been approved by the assets of the proposed drawing correction and or the proposed drawing	the attached Examiner Interviews, attached. Should the changes the judgment as provided by 37 CFR 1.31 of with, payment of the Base Issue Feu. The payment of the Base Issue Feu. The payment of the Base Issue Fee, profits on Statement of Reasons for Allowance is on Statement of Reasons for Allowance Interview in the payment of the Base Issue Fee, profits on Statement of Reasons for Allowance Interview in the Island of the Island of the Island of the Island of Interview in Island of Interview in Island of Isla	and/or additions he unacceptable to applicant, as 2. To ensure consideration of such an amendmen tidered necessary by applicant regarding the reasonably with it, to avoid processing delays. Such sets, and the such as a such as
	D. The interview sumarized or appropriate amendment may MUST be submitted before. d. An Examiner's Amendment of the submitted before. d. An Examiner's Amendment of the submitted before. D. The allowed claims are Note the attached Examiners Statement of Heat for allowance must be submitted no later than missions should be clearly labeled, "Commen of the submitted no later than missions should be clearly labeled, "Commen of the submitted no later than missions should be clearly labeled, "Commen of the statement to the claimed invention, but the later than the statement to the claimed invention, but the later to depend on a statement LIST OF ART CITED BY APPIFICATION of the drawings lited on attached Notice re Drawings, PTO-948. In ord be made in accordance with the instructions so the later to the submitted on the later to t	the attached Examiner Interviews, alloched. Should the changes the properties as provided by 37 CFR 1.31 of with, payment of the Base Issue Feu. The payment of the Base Issue Feu. The payment of the Base Issue Fee, profits on Statement of Reasons for Allowance is on Statement of Reasons for Allowance IEU, 1°TO-892, which is part of this companies are deemed to be patentable there. TECANT, PTO-1449, which is part of this references which were considered have are to avoid ABANDONMENT of this application in the attached letter "INFORMA the proposed additional or substitution in the attached letter in the avoid the proposed additional or substitutions are committed that in order to avoid the proposed additional or substitutions are committed that in order to avoid proposed additional or substitutions are committed that in order to avoid proposed additional or substitutions are committed that in order to avoid proposed additional or substitutions are committed that in order to avoid proposed additional or substitutions are committed to avoid the part of the payment of the	and/or additions he unacceptable to applicant, as 2. To ensure consideration of such an amendment added to ensure consideration of such an amendment added to ensure consideration of such an amendment added to ensure the such as a such a
	The interview sumptized of The Examiner's Amendment appropriate amendment may MUST be submitted before. d. An Examiner's Amendment of the submitted before. J. The allowed claims are D. The allowed claims are Note the attached Examiners Statement of Residuance must be submitted no later than missions should be clearly labeled, "Commen missions should be clearly labeled, "Commen missions should be clearly labeled, "Commen precipited to the claimed invention, but the Note attached LIST OF ART CITED BY APPLY receipt of applicant's prior art statement. The claims are deemed patentable thereover. The drawings filed on attached Notice re Drawings, PTO-948. In ord be made in accordance with the instructions so the made in accordance with the instructions of the proposed drawing correction and/or has (have) been approved by the examiner. Approposed changes or submission of additional of "INFORMATION ON MOW TO EFFECT DRAW"	the attached Examiner Interviews, attached. Should the changes the property of the Base Issue Feu. The property of the Base Issue Feu. The payment of the Base Issue Feu. The payment of the Base Issue Feu. The payment of the Base Issue Fee, prefits on Statement of Reasons for Allowance in the payment of the Base Issue Fee, prefits on Statement of Reasons for Allowance Italy. (**TO-892*, which is part of this prefit of the Islands are deemed to be patentable there Italy.) (**TO-892*, which is part of this references which were considered have Italy.) (**TO-894*), which is part of this applicant is acceptable as filled. ** are acceptable as filled.	and/or additions he unacceptable to applicant, as 2. To ensure consideration of such an amendmen sidered necessary by applicant regarding the reasonably with it, to avoid processing delays. Such a communication. The fisted references are considered over. Such as a communication and serves as an acknowlegging of the initiated on the form by the examiner, land the initiated on the form by the examiner, land the initiated on the form by the examiner, and the initiation, correction is required. Corrections can be included in the initiation of the initiation, correction is required. Corrections can be included in the initiation of this application, execution of the accordance with the instructions set forth in the fee
	D. The interview sumptized of the Examiner's Amendment appropriate amendment may MUST be submitted before. U. An Examiner's Amendment of the submitted before. U. An Examiner's Amendment of the submitted before. D. The allowed claims are In Note the attached Examiners Statement of Residuance must be submitted no later than missions should be clearly labeled, "Commen of the submitted no later than missions should be clearly labeled, "Commen of the submitted no later than missions should be clearly labeled, "Commen of the submitted no later than missions should be clearly labeled, "Commen of the submitted in the claims are deemed patentable thereover. The drawings lited on attached Notice re Drawings, PTO-948. In ord be made in accordance with the instructions so the made in accordance with the instructions of the made in accordance with the instructions of the calaminer. Approposed changes or submission of additional of the proposed changes or submission of additional of the proposed drawing correction, lited	the attached Examiner Interviews, attached. Should the changes the properties as provided by 37 CFR 1.31 of with, payment of the Base Issue Feu. The payment of the Base Issue Feu. The payment of the Base Issue Feu. The payment of the Base Issue Fee, prefits on Statement of Reasons for Allowance Issue See, prefits on Statement of Reasons for Allowance Issue See, prefits on Statement of Reasons for Allowance Issue See, prefits on Statement of the Base Issue Fee, prefits on Statement of the Base of Allowance Issue See, prefits on the payment of the Base of the Issue See, prefit is the Issue S	and/or additions he unacceptable to applicant, as 2. To ensure consideration of such an amendmen sidered necessary by applicant regarding the reasorably with it, to avoid processing delays. Such sets of the set
2.	The interview sumprized of The Examiner's Amendment appropriate amendment may MUST be submitted before. d. An Examiner's Amendment of the submitted before. d. An Examiner's Amendment of the submitted before. D. The allowed claims are Note the attached Examiners Statement of Residuance must be submitted no later than missions should be clearly labeled, "Commen of the submitted no later than missions should be clearly labeled, "Commen of the submitted no later than missions should be clearly labeled, "Commen of the submitted in accordance with the instructions submitted in accordance with the instructions in the proposed drawing correction and/or has (have) been approved by the examiner. Approposed changes or submission of additional of "INFORMATION ON MOW TO EFFECT DRAW" in the proposed drawing correction, filed longer makes drawing correction, filed longer makes drawing changes. It is now applied to supplie the submit of the submit in the instructions with the instructions and contents to submit the instructions.	the attached Examiner Interviews, attached. Should the changes the jumposed as provided by 37 CFR 1.31 of with, payment of the Base Issue Feu. The payment of the Base Issue Feu. The payment of the Base Issue Feu. The payment of the United States of Allowance. Any comments considered to a fleasons for Allowance in the payment of the United States of Allowance Itels, 1°TO-892, which is part of this considered to be patentable there Itels on Statement of Reasons for Allowance Itels, 1°TO-892, which is part of this references which were considered have references which were considered have a read additional or substitute of the Itels of t	and/or additions he unacceptable to applicant, as 2. To ensure consideration of such an amendmen 2. To ensure consideration of such an amendmen 3. To ensure consideration of such an amendmen 4. The such as a such as
	The interview sumprized of The Examiner's Amendment appropriate amendment may MUST be submitted before. d. An Examiner's Amendment of the submitted before. d. An Examiner's Amendment of the submitted before. D. The allowed claims are In allowance must be submitted no later than missions should be clearly labeled, "Commen of the submitted no later than missions should be clearly labeled, "Commen of the submitted on later than missions should be clearly labeled, "Commen of the submitted on later than missions should be clearly labeled, "Commen of the submitted on later than missions should be clearly labeled, "Commen of the submitted on the submitted of the s	the attached Examiner Interviews, allached. Should the changes the jumposed as provided by 37 CFR 1.31 of with, payment of the Base Issue Feu. The payment of the Base Issue Feu. The payment of the Base Issue Feu. The payment of the Base Issue Fee, prefits on Statement of Reasons for Allowance Issue Statement of Reasons for Allowance Issue Statement of Reasons for Allowance Issue Statement of the payment of this comments are deemed to be patentable there Issue Issue Statement of the patentable there Issue Issue Statement of the patentable there Issue Is	and/or additions he unacceptable to applicant, as 2. To ensure consideration of such an amendmen addition of such an amendmen addition to ensure consideration of such an amendmen addition to ensure consideration of such an amendmen addition. The first deferences are considered over. "" "" "" "" "" "" "" "" ""
	The interview sumprized of The Examiner's Amendment appropriate amendment may MUST be submitted before. d. An Examiner's Amendment of the submitted before. d. An Examiner's Amendment of the submitted before. D. The allowed claims are In allowance must be submitted no later than missions should be clearly labeled, "Commen of the submitted no later than missions should be clearly labeled, "Commen of the submitted on later than missions should be clearly labeled, "Commen of the submitted on later than missions should be clearly labeled, "Commen of the submitted on later than missions should be clearly labeled, "Commen of the submitted on the submitted of the s	the attached Examiner Interviews, attached. Should the changes the jumposed as provided by 37 CFR 1.31 of with, payment of the Base Issue Feu. The payment of the Base Issue Fee, prefits on Statement of Reasons for Allowance Issue Statement of the patentable there Issue Issue Statement of the patentable there Issue Issu	and/or additions he unacceptable to applicant, as 2. To ensure consideration of such an amendmen a consideration of such an amendmen a consideration of such an amendmen a considered necessary by applicant regarding the reasonably with it, to avoid processing delays. Such the constitution of the constitution of the communication and serves as an acknowlegation over. I communication and serves as an acknowlegation of the communication and serves as an acknowlegation of the communication and serves as an acknowlegation over initiated on the form by the examiner, find the communication and serves as an acknowlegation initiated on the communication and serves as an acknowlegation initiated on the communication is required. Corrections as indicated on the contraction is required. Corrections as forth in the figure of the corrected. Corrections are required as the corrected. Corrections are required and trademark office no rewings are corrected. Corrections are required and NFORMATION ON HOW TO EFFECT DRAWING.

J. J. Casaregul
EXAMINER
ART UNIT 343

PTOL-85 (Rev. 8-87)



UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

Address : COMMISSIONER OF PATENTS AND TRADEMARKS Weshington, D.C. 20231

NOTICE OF ALLOWANCE AND ISSUE FEE DUE

THE GARRETT CORP. PAT. DEPARTMENT G4/301-1 111 SOUTH 34TH ST. P. C. BOX 5217 PHOENIX, AZ 85910

All communications regarding this application should give the serial number, date of filing, name of applicant, and batch number.

Please direct all communications to the Attention of "OFFICE OF PUBLICATIONS" unless advised to the contrary.

The application identified below has been examined and found allowable for issuance of Letters Patent. PROSECUTION ON THE MERITS IS CLOSED.

FILING DATE TOTAL CLAIMS EXAMINER AND GROUP ART UNIT 06/235,794 DATE MAILED 02/19/81 023 CASAREGOLA, L 343 STOKES, 11/18/82 RICHARD F. COMPRESSOR BLEED AIR CONTROL APPARATUS AND METHUD

ATTY'S DOCKET NO. CLASS-SUBCLASS BATCH NO. APPLN. TYPE SMALL ENTITY FEE DUE TE-4086 DATE DUE 060-039.007 N42 UTILITY N: \$500.0n

HSB 401480

02/18/83

The amount of the issue fee is specified by 37 C.F.R. 1.18 as follows: for an original or reissue patent, except for a design or plant patent, \$500; for a design patent, \$175; and for a plant patent, \$250. If the applicant qualifies for and has filed a verified statement of small entity status in applicant's status as of the time of mailing this notice. A verified statement of small entity status may be filed prior to or with payment of the issue fee. However, in accordance with 37 C.F.R. 1.28, failure to establish status as a small entity prior to or with payment of precludes payment of the issue fee in the amount so established for small entities and precludes a refund of any portion thereof paid prior to

establishing status as a small entity.

THE ISSUE FEE MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE as indicated above. The application shall otherwise be regarded as ABANDONED. The issue fee will not be accepted from anyone other than the applicant; a registered to charge the assignee or other party in interest as shown by the records of the Patent and Trademark Office. Where an authorization to charge the issue fee to a deposit account has been filed before the mailing of the notice of allowance, the issue fee is charged to the deposit account at the time of mailing of this notice in accordance with 37 C.F.R. 1.311. If the issue fee has been so charged, it is indicated above.

In order to minimize delays in the issuance of a patent based on this application, this Notice may have been mailed prior to completion of final In order to minimize delays in the issuance of a patent based on this application, this Notice may have been mailed prior to completion of final processing. The nature and/or extent of the remaining revision or processing requirements may cause slight delays of the patent. In addition, if prosecution is to be reopened, this Notice of Allowance will be vecated and the appropriate Office action will follow in due course. If the account, However, applicant may wait until the application is either found allowable or held abandoned. If allowed, upon receipt of a new Notice of Allowance, applicant may request that the previously submitted issue fee be applied. If abandoned, applicant may request refund or credit to

In the case of each patent issuing without an assignment, the complete post office address of the inventor(s) will be printed in the patent heading and in the Official Gazette. If the inventor's address is now-different from the address which appears in the application, please fill in the information in the spaces provided on PTOL-85b enclosed. If there are address changes for more than two inventors, enter the additional addresses on

The appropriate spaces in the ASSIGNMENT DATA section of PTOL-85b must be completed in all cases. If it is desired to have the patent issue to an assignee, an assignment must have been previously submitted to the Patent and Trademark Office or must be submitted not later than the date of payment of the issue fee as required by 37 C.F.R. 1.334. Where there is an assignment, the assignee's name and address must be provided on the PTOL-85b to ensure its inclusion in the printed patent.

Advance orders for 10 or more printed copies of the prospective patent can be made by completing the information in Section 4 of PTOL-85b-must be for at least 10 copies and must accompany the issue fee. The copies ordered will be sent only to the address specified in section 1 or

ш	Note attached communication from Examiner.	
	This notice is issued in view of	

IMPORTANT

ATTENTION IS DIRECTED TO 37 C.F.R. 1.334

THE PATENT WILL ISSUE TO APPLICANT UNLESS AN ASSIGNEE IS SHOWN IN ITEM 3 ON FORM PTOL-85b, ATTACHED

PATENT AND TRADEMARK OFFICE COPY

applicant's communication filed .

FOL-85 (Rev. #-82)	
nis form is provided to make the second	E TRANSMITTAL U.S. Department of Commerce
INVENTORIS ADDRESS CHANGE SCISERIAL NO.	ETHANSMITTAL Patent and Trademark Office smitting the Issue Fee. Sections 1A through 4 must be completed as appropriate
INVENTOR'S NAME AND THE	MAILING INSTRUCTIONS
Street Address 17 JAN	All further correspondence including the Issue Fee Rec the Patent, and advanced orders will be mailed to the addresse entered in section 1 on PTOL SEe
2 27 E	entered in section 1 on PTOL-85c, unless you direct other addresse by specifying the appropriate name and address in 1 A below.
City, State and City Codd 983	2A. The COMMISSIONER OF PATERING
- Charles and the second secon	MARKS 3 requested to apply the issue Fee to the application identified below.
CO-INVENTOR'S NAME MARK	+ Wishing Daniel
Street Address	J. Kunny Minneyen
onet Address	J. RICHARD KONNEKER (m. /
City, State and Zip Code	REG. NO. 28,867
	Note: The Issue Fee will not be accepted from anyone other than the applicant; a
Check if additional changes are on reverse side.	assignee or other name; or the
	shown by the records of the Patent and Trademark Office.
SC/SERIAL NO. FILING DATE TOTAL CLAIMS	
	EXAMINER AND GROUP ART UNIT DATE MAILED
96/205+794 97/19/91 923	CASAREGOLA- (348 11/18, 8/
Named STOKES. SICHAL	
TITLE OF TUMPPESCOP PLEED AIR CONTROL AND	
ATTY'S DOCKET NO. CLASS-SUBCLASS BATCH NO.	APPLN. TYPE SMALL ENTITY FEE DUE DATE DUE
ti the bot-tie unit die	WILLITA the stinging of these
A. Further correspondence to be mailed to the following: J. RICHARD KONNEKER/G4/301-15	2B. For printing on the patent front
THE GARRETT CORPORATION	than 3 registered patent attorneys
P.O. BOX 5217	name of a firm houses we was a DT DEDM T SETT TOO
PHOMNIX, ARIZONA 85010	If no name is listed, no name
DO NOT USE	will be printed.
0000C 01/25/85 845794	67-7143 1 14 500,000
: 3503 01/25/62 225-94	57-6145 1 561 14.00CF
the state of the s	Andrew Commence of the Commenc
ASSIGNMENT DATA (print or type)	A second of the
(1) This application is NOT assigned.	The following fees are enclose:
(2) XX Assignment previously submitted to the Patent and Trademark Office. (3) Assignment submitted herewith.	Issue fee Advanced order Assignment recording
For Printing On The Patent: (Unless an assignee is identified below, no	
is only appropriate when an arrian ment inclusion of assignee data below	The following fees should be charged to deposit acc. no. 07-0145
the PTO or is submitted herewith. Completion of this form is NOT a substitute for filing of an assignment as required by 37 C.F.R. 1.334).	(PTOL-85c or additional copy of
(1) NAME OF ASSIGNEE:	PTOL-85b must be enclosed)
THE GARRETT CORPORATION	☑ Issue fee □ XAdvanced order
(2) ADDRESS: {City & State or Country} LOS ANGELES, CALIFORNIA	Advanced order Assignment recording
(3) STATE OF INCORPORATION AS	The second secon
ASSIGNEE IS A CORPORATION: CALIFORNIA	Number of advanced order copies requested. 14
CALIFORNIA	(must be for 10 or more copiet)

Case 1:99-cv-00309-GMS

The Garrett Corporation

111 So. 34th St PO. Box 5217 Phoenix Arizona 85010 602-267-6291

January 18, 1983

Hon. Commissioner of Patents & Trademarks

Washington, D.C. 20231

Attention: OFFICE OF PUBLICATIONS

Re:

Serial No. 235,794

For: COMPRESSOR BLEED AIR CONTROL APPARATUS & Inventor: STOKES et al

Batch No. N42

Subject: 1. Partial Blanket Deposit Account

Authorization

Issue Fee Transmittal

Dear Sir:

Enclosed herewith are executed ISSUE PEE Transmittal Forms PTOL-85b and 85c for the above-identified case, including deposit account authorization for payment of the issue fee and for the advance order of patent copies.

Blanket authorization is hereby given to charge to Deposit Account No. 07-0145 any and all unpaid fees which may be necessary to secure issuance of the above case, whether or not previously

Very truly yours,

THE GARRETT CORPORATION

Certificate of Mailing

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner of Patents and Trademarks, Washing-

ton, D. C. 20231, on

Richard Konneker, Reg. 28,867

J. Richard Konneker Attorney for Applicants

HSB 401482

Enclosures

Garrett Deposit Account Records

The Signal Companies

	220.00		·			·					
	FORM PTO-875	241	S. DEPARTMEN' TENT AND TRA	CEMARK OF	FICE	335	79	ry.	A.Z.	-/9- § /	<i>'</i>
	PATENT	T APPLICATION RECOI		MOITANIA		APPLICANT	First Naj A	med Only)	7 1	Stake	
				CLAIMS	AS F	LED - PART I	wec	<u></u>	<u>/</u>	6/1	<u>~</u> id
# 10 m		FOR		2. MBER ILED		131 NUMBER FILED		i	4: LTÉ	BASIC FEE	E .
		TOTAL CLAIMS	5	2-10		4:	Ĵ.		× \$2.00	84.0	·d
<u> </u>		INDEPENDENT CLAIMS		9	₽	2	3=		× \$10.00	80.0	<i>ل</i> ،
•								TOTAL FI	LING	2290	0
	16 3 4	, see .	5 July 10	CLAIMS AS	AMEN	IDED - DART II	ı				
en e			(21 CLAIMS EMAINING	(3)		(4)	PR	(5) ESENT	16,	(7)	
general and the state of the st		`.	AFTER ENDMENT			ERVIOUSLY PAID FOR		XTHA	RATE	++E	
ing and the construction of the	AMENDMENT	TOTAL		MINUS			=		× 52	-	
, 成本主题集集的各		INDEP.	7	MINUS		/	=		× 510	<u>.</u>	
				's	÷	TOTAL ADDIT		EE FOR	-		
The same from the same of the		TOTAL		MINUS	李孝		ŧ		\ s:		
	AMENDMENT	INDEP.		MINUS	. 3 . 4		=		K \$10		
				· · · · · · · · · · · · · · · · · · ·		TOTAL ADDIT		FEE FOR	-		•
	## W	TOTAL		MINUS	**		=		x \$2	7	
wines Special	AMENDMENT	HINDEP.		MINUS	• • • • • •	J.	=		× \$ 10	•	
						TOTAL ADDITI		EE FOR	-		
		TOTAL:		MINUS	**		=		x \$2	<u>.</u>	
	AMENDMENT	INDEP.		MINUS	**		: = Le		x 510	=	
						TOTAL ADDIT	IONAL I	FEE FOR	>		
		ry in Column 2 is les ighest Number Previ						. **10** :-	this ener-		
		hest Number Previou									

Secretary to the second

HSB 401483 -

LISCOMMITTE INFT-1-19

Case 1:99-cv-0030	FILING FEE SEGNE RECEIVED CAR FORMAT NO. 6 & 7 COMPANIENCE CASE	1 2	iled 02/06/2004	Page 36 o	f 37
	BHE GT	STATUS CODE		Month Day Year	
U.S. DEPARTMENT of COUNSE	SHEETS OF TOTAL DIS. PRESTRE SHEETS OF TOTAL INDICATE IND	Day Year		MBER	
1.	NO. 1			TOTALICATION SERIAL NUMBER	
FILE DATA CODING SHEET	HANDLING ARTUNIT CLASS ARTUNIT ARTUNIT CLASS ARTUNIT ARTUNIT CODINGSHEET DATELL PARTS PARENT APPLICATION SERIAL NUMBER		0 0 0 0 0 0 DCT/FOR		
	CONTINUITY CODE		COUNTRY CODE	НСР	401.10
TYPE APPI	ATTORNEY BOCK	RECORD 8 0 2 RECORD 8 0 4 RECORD 8 0 4 RECORD 8 0 5 RECORD 8 0 6 RECORD 8 0 6	RECORD 8 0 8 RECORD 8 0 9 RECORD 8 1 0	9 9 0 0 0 0 0 0 0 0 0 0 0	401484 9 1 8 6 0 0 0 0 0 7 6 6 6 6 6
FORMAT NO. 2 / SERIAL NO.	FORMAT NO. 3	RECORDER	N TENTAL SHEET	PHOBITY RECORD Oves No RECORD RECORD RECORD	HECORD APPLICATION RECORD RECORD MORE ON RECORD CODING SHEET RECORD

ender de proprieta legislador de Maria do Maria do Como do Como dos dos dos estados en os destraciones do como de como

